

Explanation of plate 73

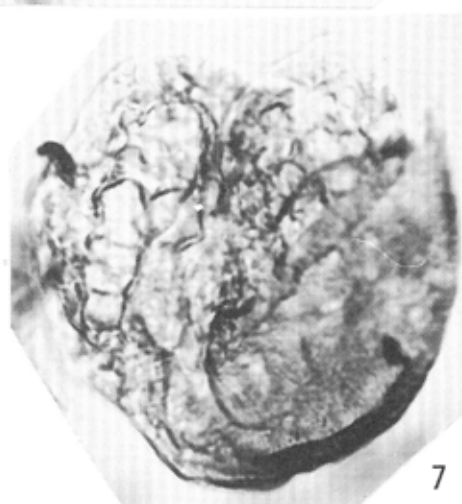
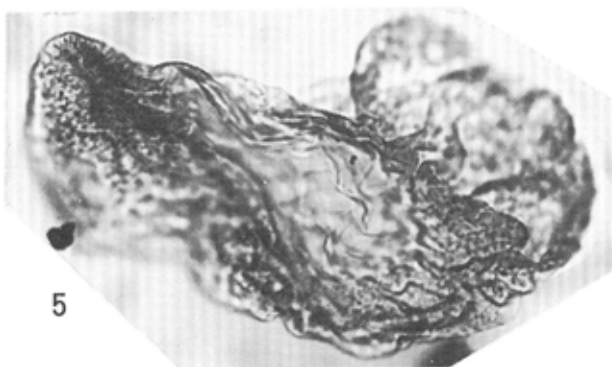
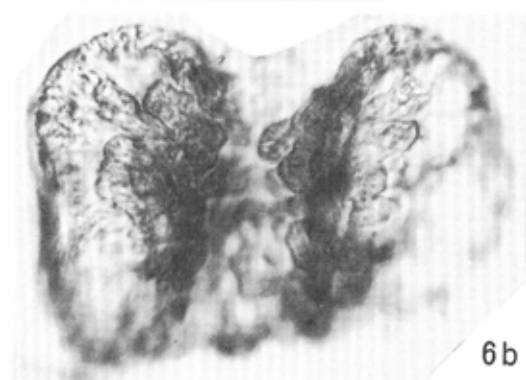
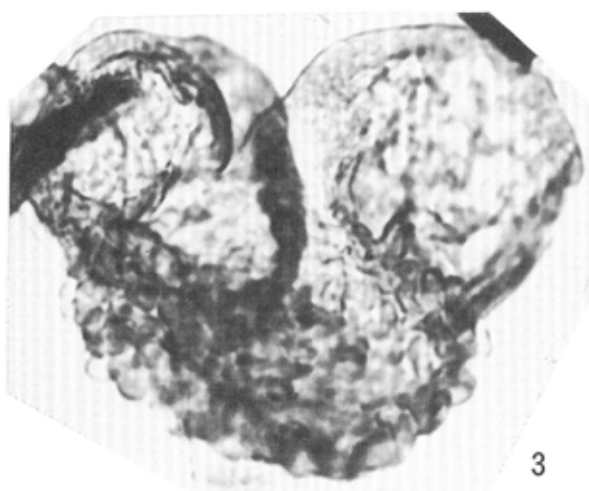
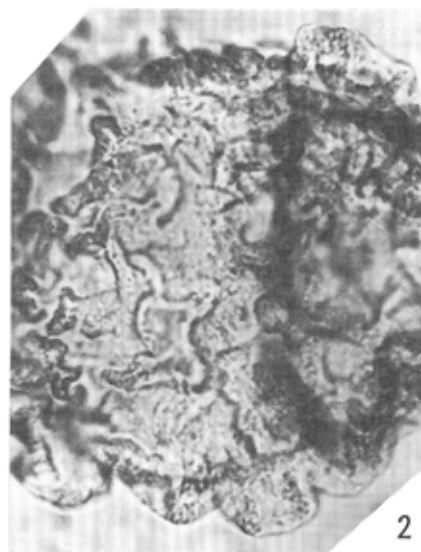
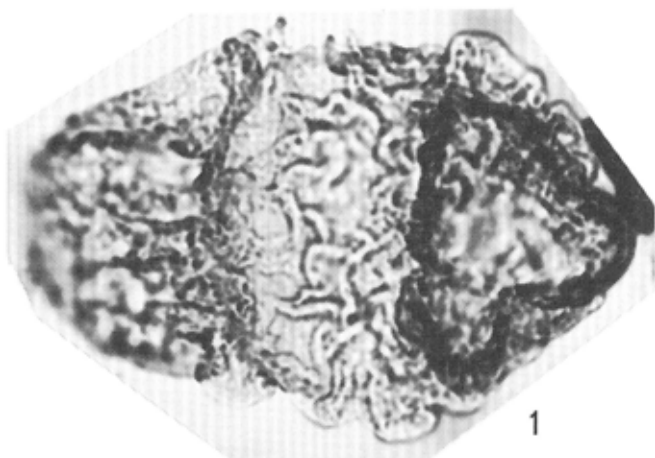
(All figures magnified X 800 unless otherwise mentioned)

Figs. 1 — 5. *Rugubivesiculites japonicus* n. sp.

Fig. 1, 2 : slide C 31—b; fig. 2 : X 1000, magnified central body of fig. 1 ; fig. 3 : slide C 31—e; fig. 4 : slide C 17—e; fig. 5 : slide C 31—c, X 600.

Figs. 6 a—b. *Podocarpidites* cf. *podocarpoides* (Thiergart) Krutzsch  
Slide C 33—b, X 1000.

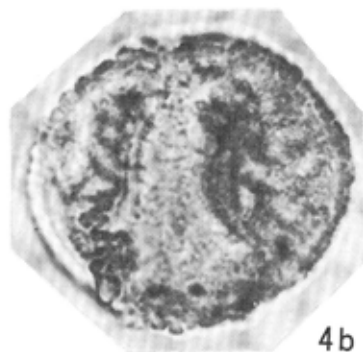
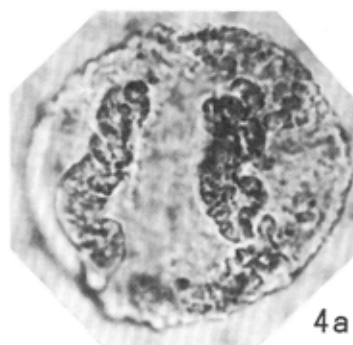
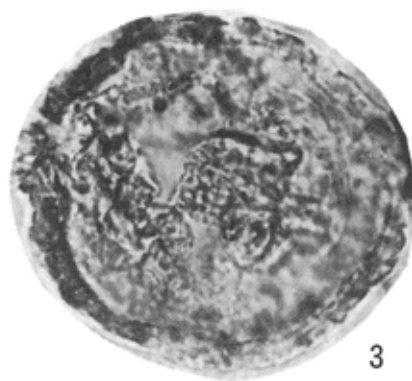
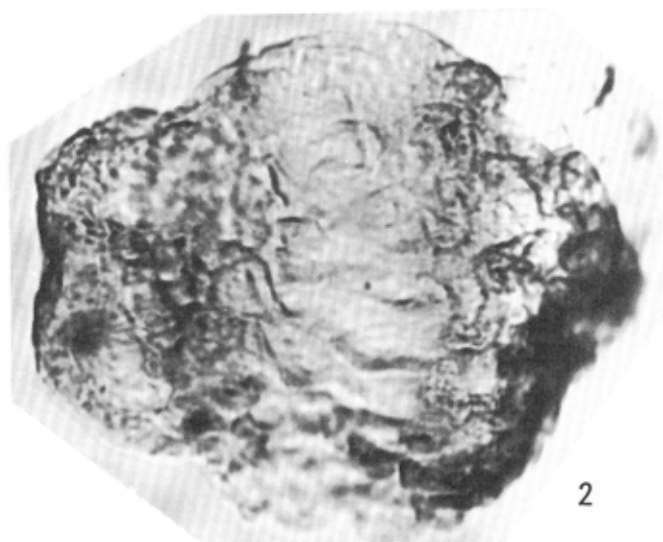
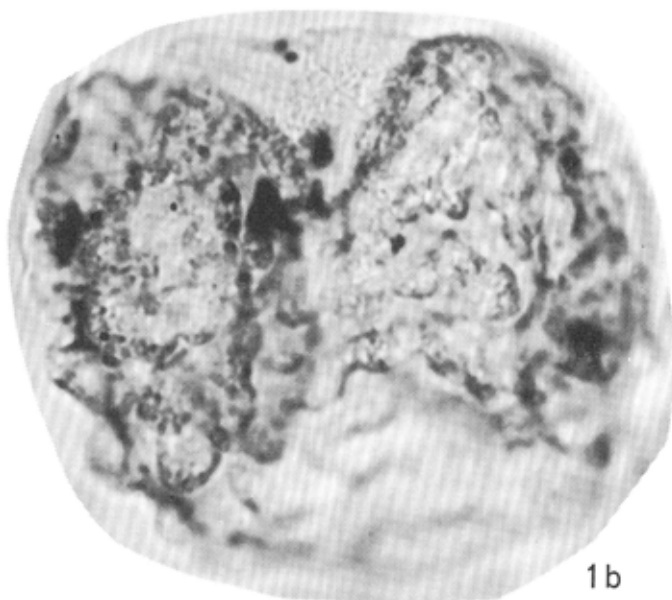
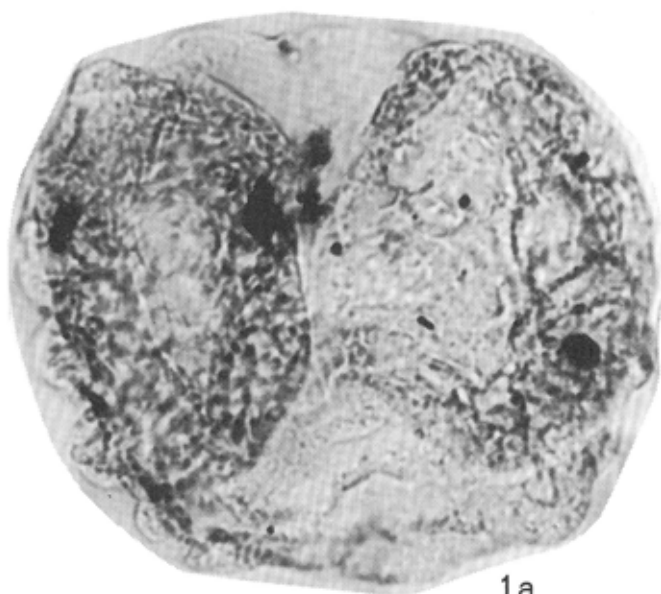
Fig. 7. *Pityosporites* sp. d  
Slide C 31—b.



Explanation of plate 74

(All figures magnified X 1000 unless otherwise mentioned)

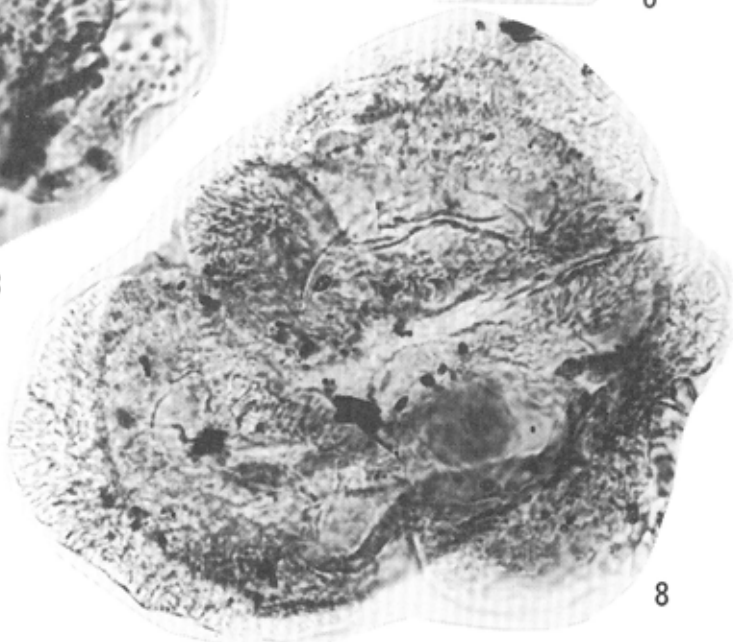
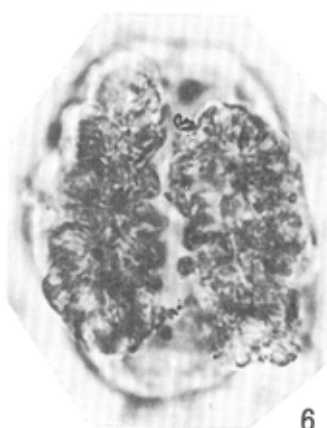
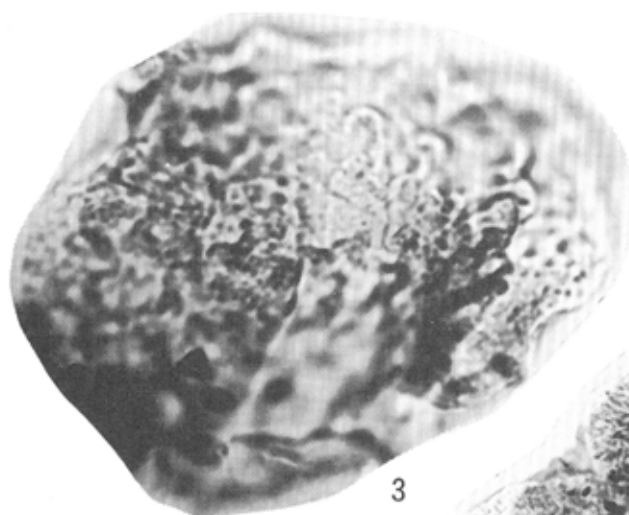
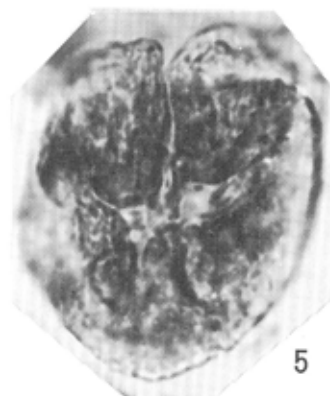
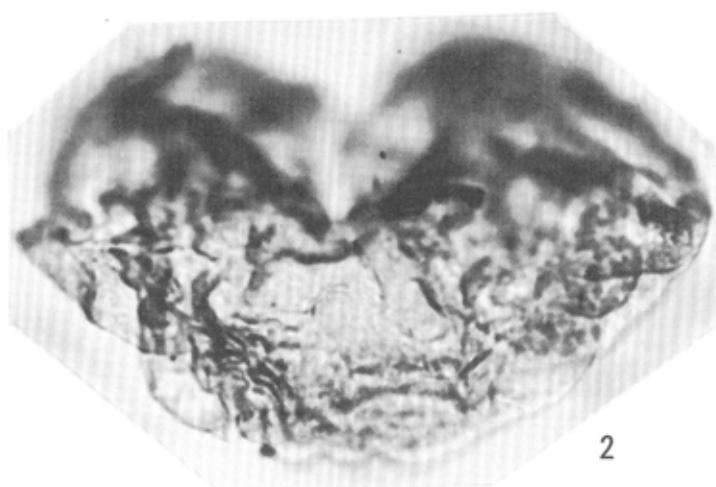
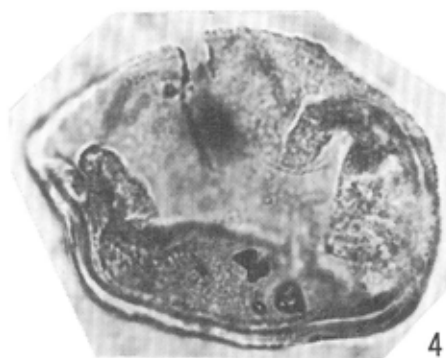
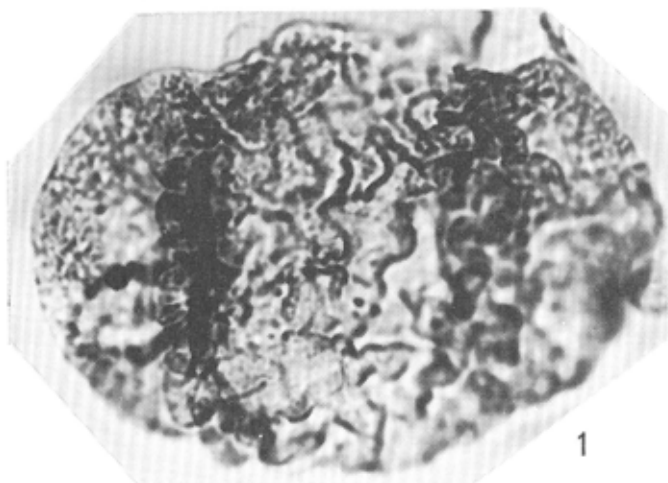
- Figs. 1 a—b, 2. *Rugubivesiculites sphaericus* n. sp.  
X 800; figs. 1 a, b: holotype, slide C 34— a; fig. 2 : slide C 31—d.
- Figs. 3 — 5. *Phyllocladidites globulosus* n. sp.  
Figs. 3 : slide C 34— a, figs. 4 a, b: slide C 17—e;  
figs. 5 a, b: holotype, slide C 33—b.



Explanation of plate 75

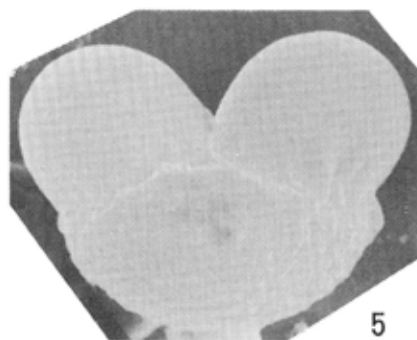
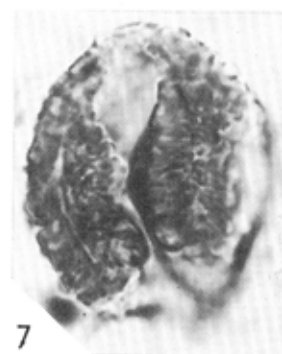
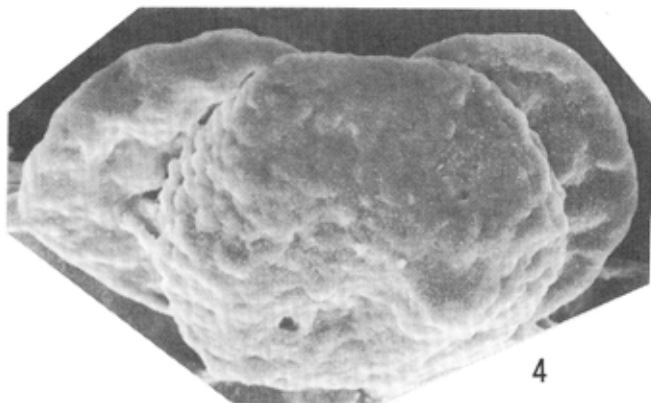
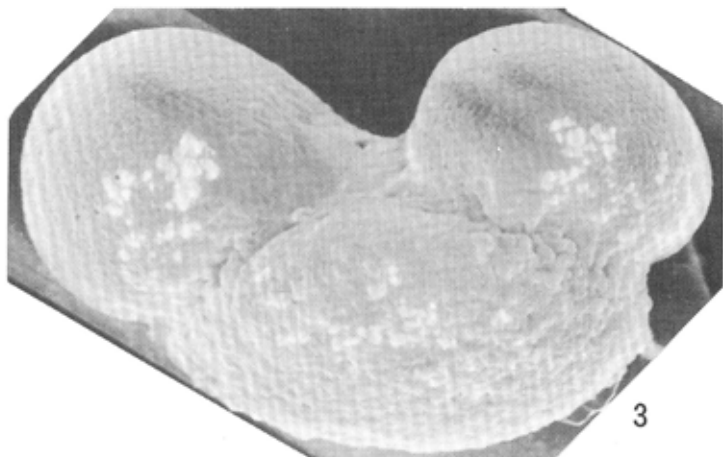
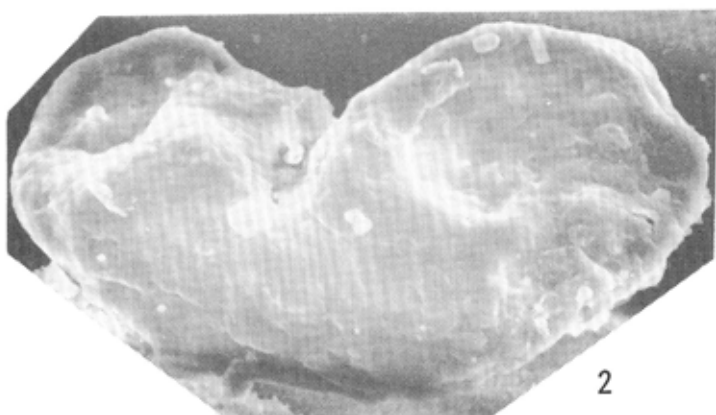
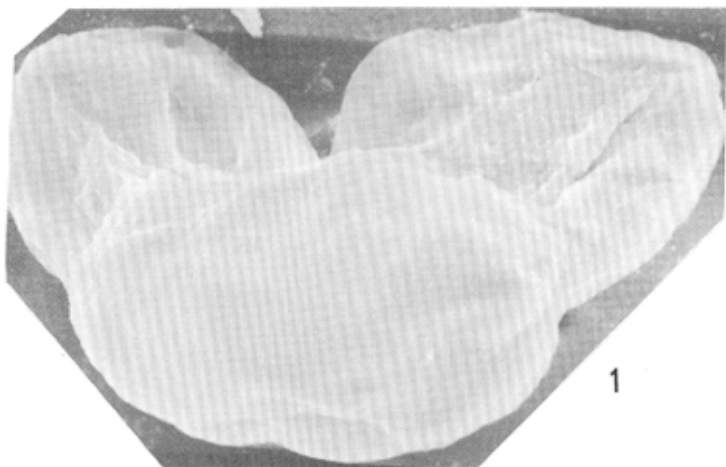
(All figures magnified X 1000 unless otherwise mentioned)

- Fig. 1. *Rugubivesiculites japonicus* n. sp.  
X 800, slide C 17—d.
- Figs. 2, 3. *Rugubivesiculites sphaericus* n. sp.  
X 800, fig. 2 : slide C 31—d; fig. 3 : slide C 31—b.
- Fig. 4. *Phyllocladidites globulosus* n. sp.  
Slide C 33—b .
- Figs. 5, 6. *Phyllocladidites* cf. *ovatus* Takahashi  
Fig. 5 : slide C 31—d; fig. 6 : slide C 34—c.
- Fig. 7. *Phyllocladidites mawsonii* Cookson  
Slide C 33—a .
- Fig. 8. ? *Microcachryidites* sp.  
X 600, slide C 34—b.



Explanation of plate 76

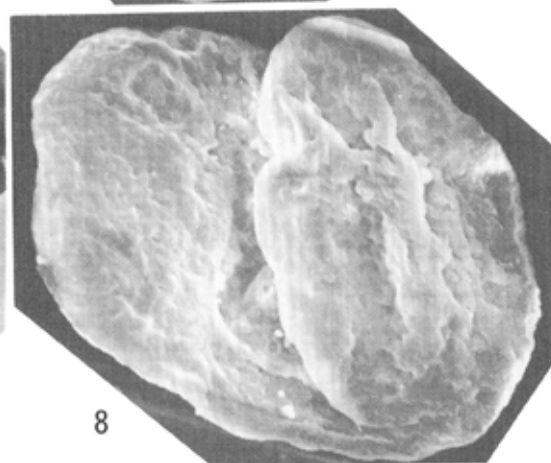
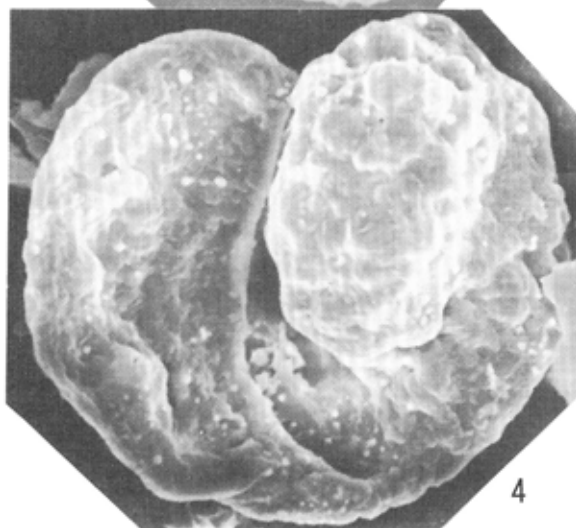
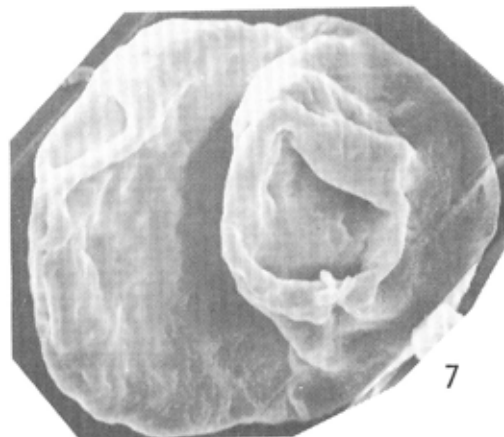
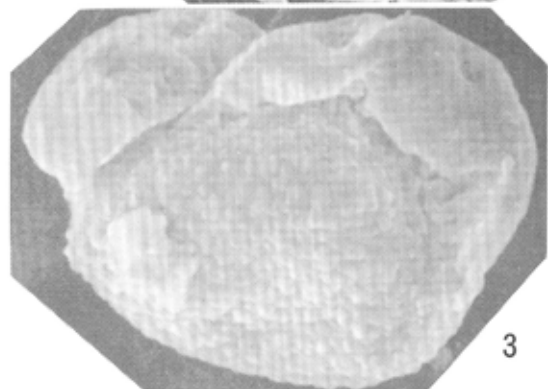
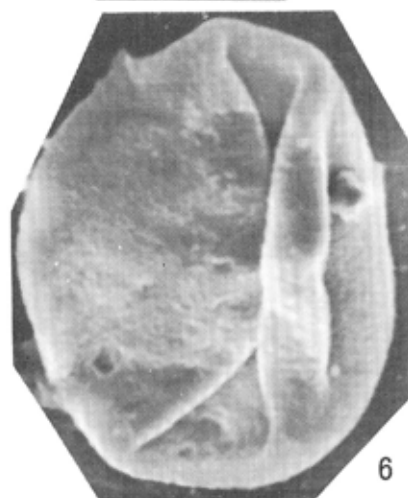
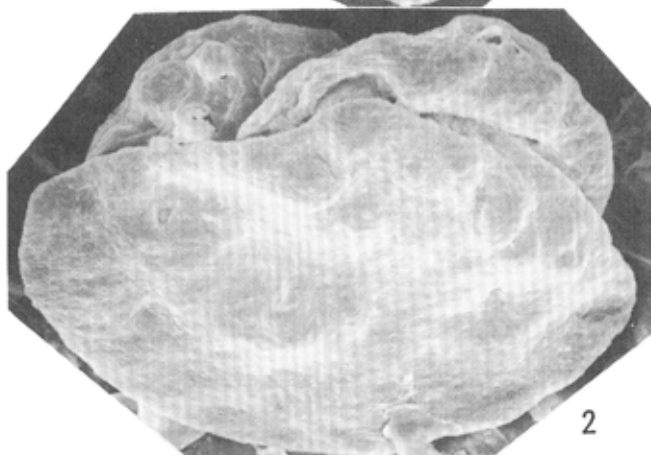
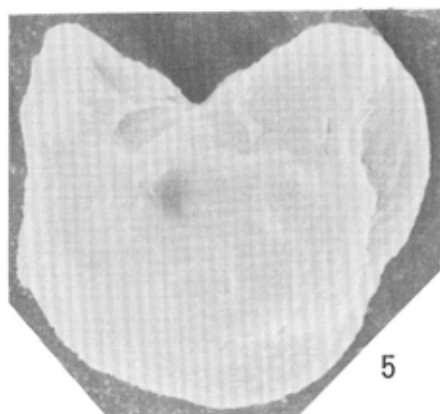
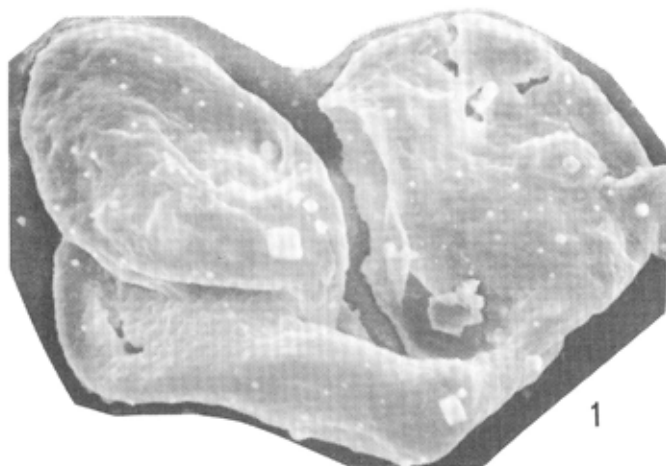
- Figs. 1 – 4. *Pityosporites alatipollenites* Rouse n. comb.  
SEM: X 1300, (C 31).
- Fig. 5. *Pityosporites scopulipites* (Wodehouse) Krutzsch  
SEM: X 800, (C 31).
- Figs. 6 – 9. *Phyllocladidites mawsonii* Cookson  
X 1000; figs. 6, 8 : slide C 31–c; fig. 7 : slide C 31–d; fig. 9 :  
slide C 33–b.





Explanation of plate 77  
(SEM photomicrographs)  
(All figures magnified X 1300 unless otherwise mentioned)

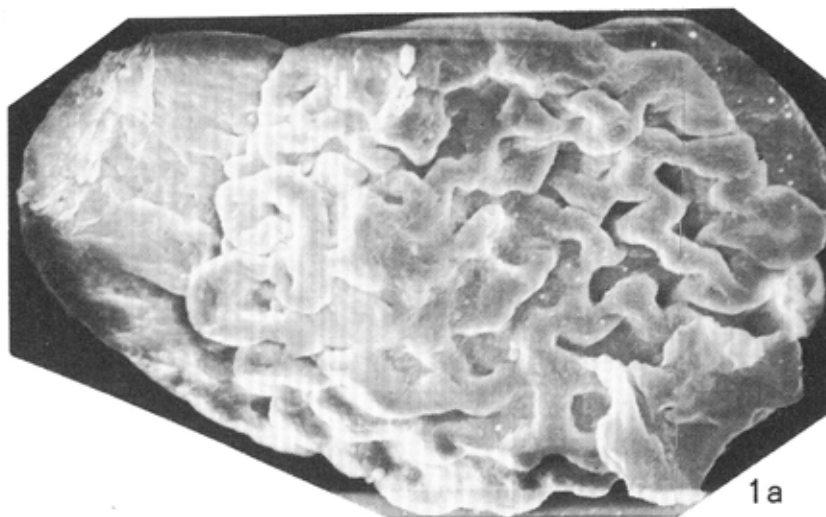
- Fig. 1. *Pityosporites alatipollenites* Rouse n. comb.  
(C 31).
- Fig. 2. *Piceapollis* sp. b  
X 850, (C 31).
- Fig. 3. ? *Piceapollis* sp.  
(C 33).
- Figs. 4, 5, 7, 8. *Pityosporites siegburgensis* Takahashi & Jux  
(C 31).
- Fig. 6. *Pristinuspollenites* cf. *microsaccus* (Couper) B. D. Tschudy  
X 3000, (C 31).



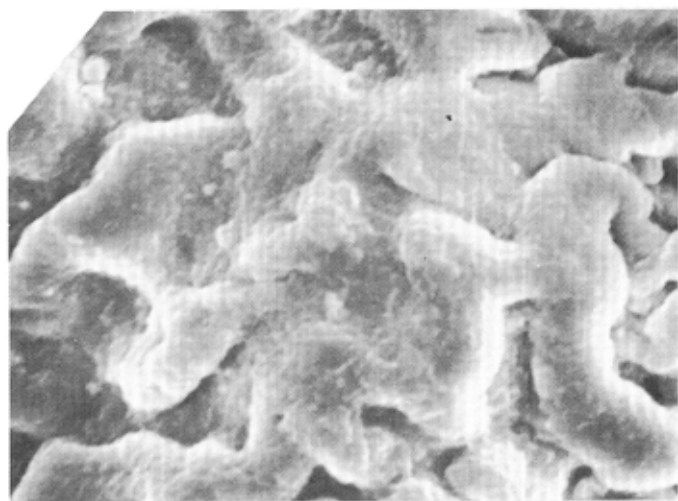
Explanation of plate 78

(All figures magnified X 1000 unless otherwise mentioned)

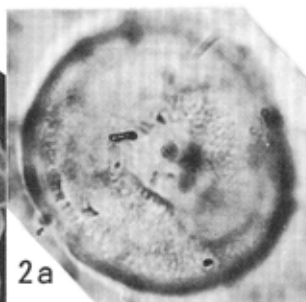
- Figs. 1 a—b. *Rugubivesiculites japonicus* n. sp.  
SEM ; fig. 1 a: X 1300; fig. 1 b: magnified central body with sculpture,  
X 3000; (C 31).
- Figs. 2 — 8. *Classopollis taneichiensis* n. sp.  
Figs. 2 a, b: slide C 17—d; figs. 3 a—b, 5, 6, 8 : slide C 31—b; fig.  
4 : holotype, slide C 31—c; figs. 7 a, b: slide C 33—a.



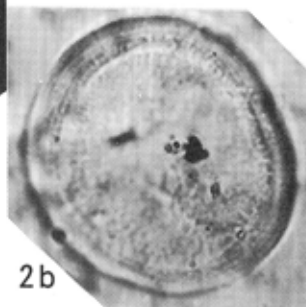
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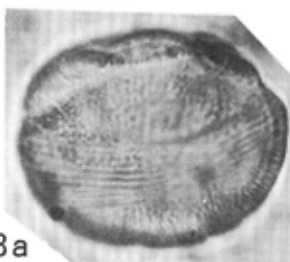
1b



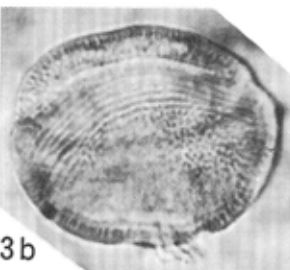
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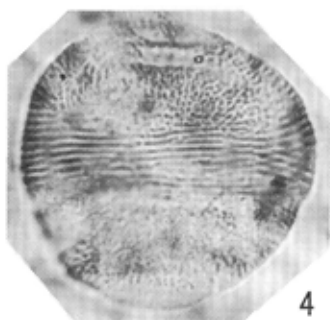
2b



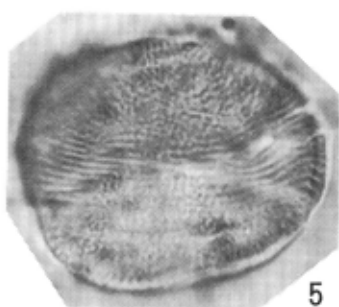
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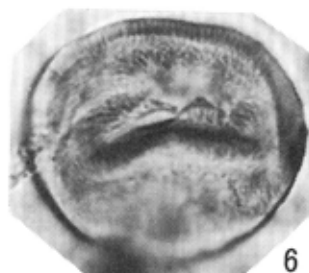
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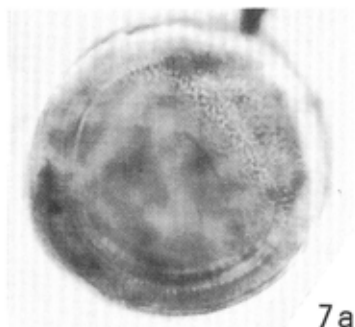
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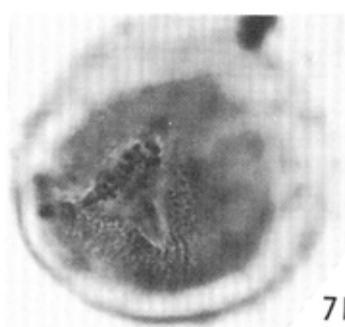
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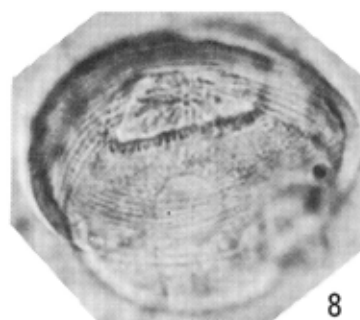
6



7a



7b



8

Explanation of plate 79

(All figures magnified X 1000 unless otherwise mentioned)

Figs. 1 – 3, 9. *Classopollis taneichiensis* n. sp.

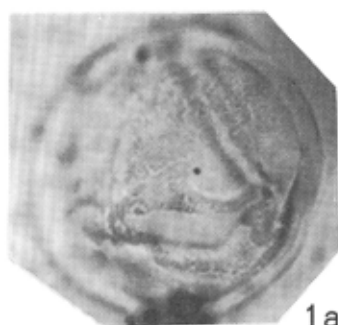
Figs. 1 a–b, 3 : slide C 31–b; figs. 2 a, b: slide C 33–a;  
fig. 9 : SEM, X 1700, (C 31).

Figs. 4 – 8. *Classopollis grandissimus* n. sp.

Fig. 4 : slide C 31–c; fig. 5 – 7 : slide C 31–d; fig. 5 :  
holotype; fig. 8 : SEM, X 1300, (C 31).

Figs. 10 – 12. *Potamogetonacidites senonicus* n. sp.

Fig. 10: slide C 31–b; figs. 11, 12: slide C 6 –d; fig. 12: holotype.



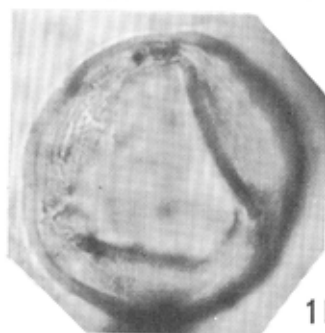
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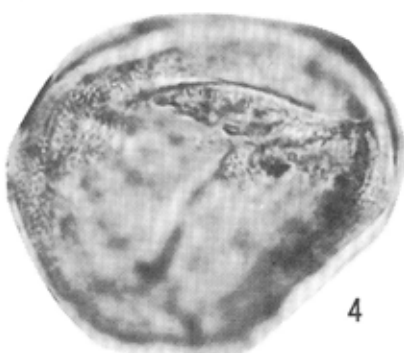
2a



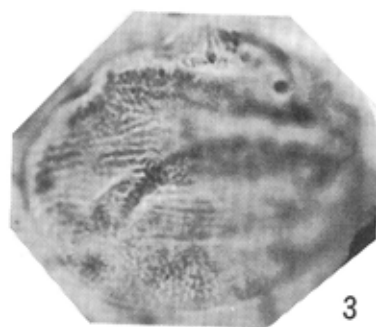
2b



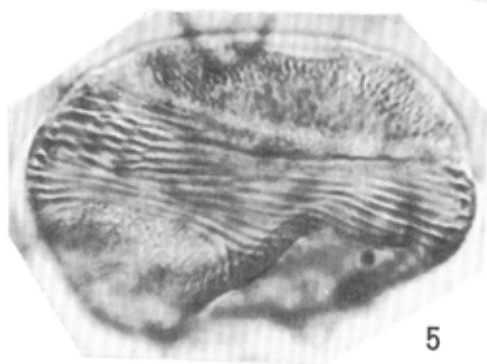
1b



4



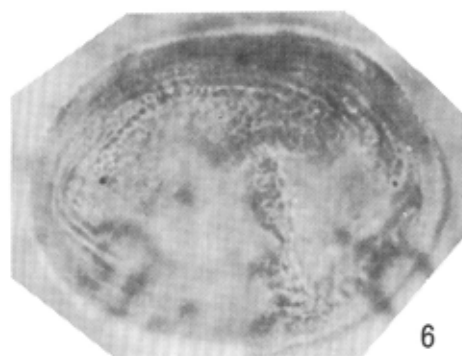
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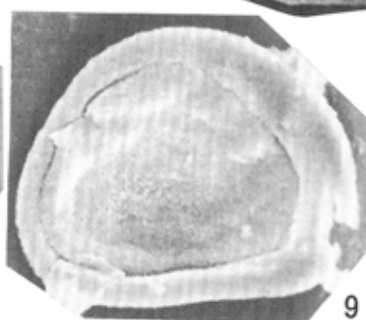
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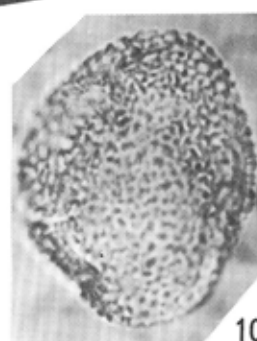
8



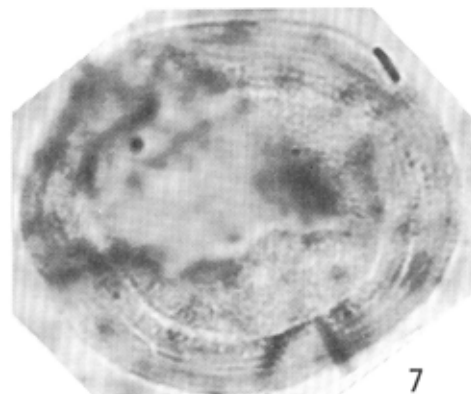
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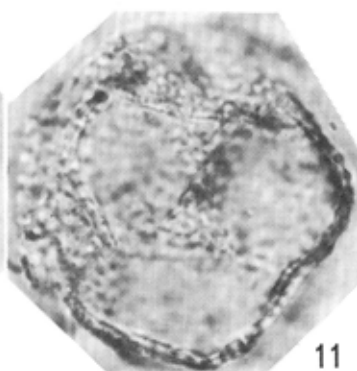
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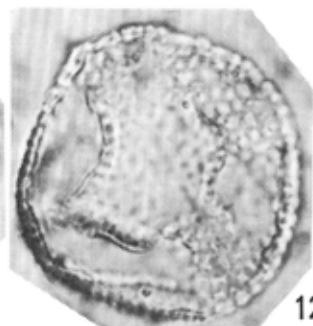
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7



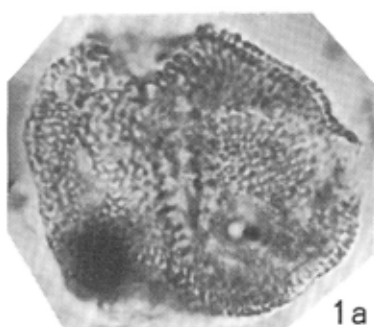
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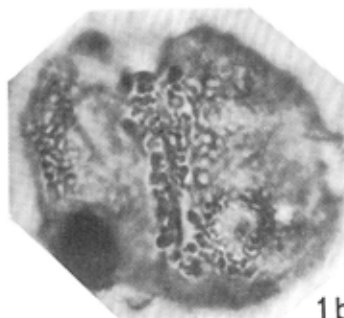
12

Explanation of plate 80  
(All figures magnified X 1000)

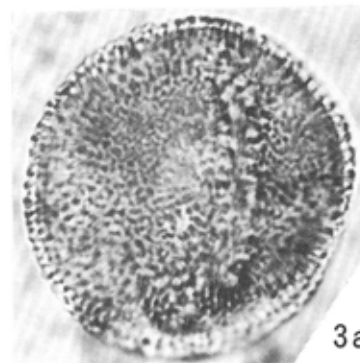
Figs. 1 – 8.    *Clavatipollenites variabilis* n. sp.  
Figs. 1 – 5, 7, 8 : slide C 31–b; fig. 6 :  
slide C 31–e; figs. 3 a, b: holotype.



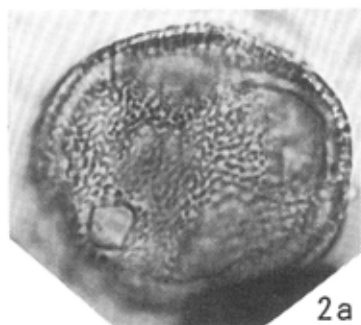
1a



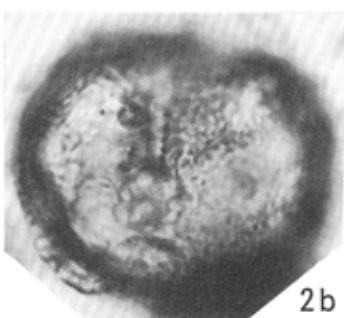
1b



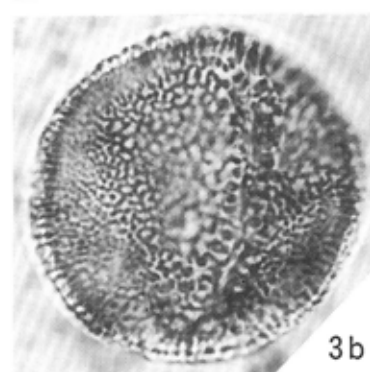
3a



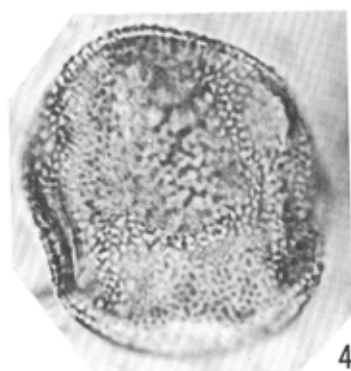
2a



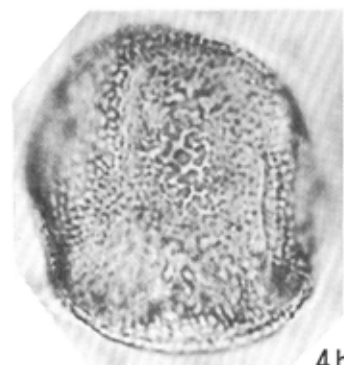
2b



3b



4a



4b



5a



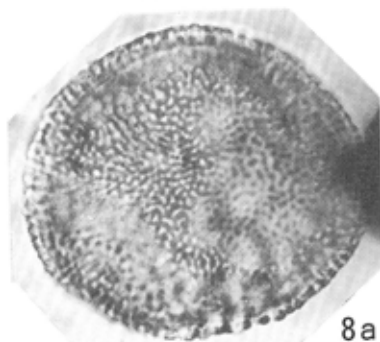
7



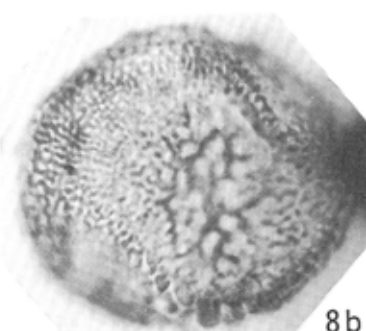
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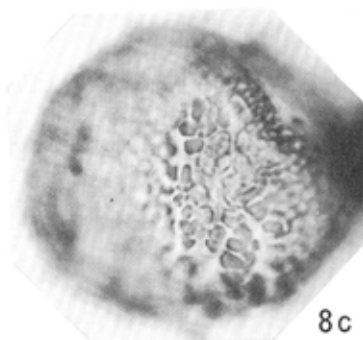
5b



8a



8b



8c



Explanation of plate 81  
(All figures magnified X 1000)

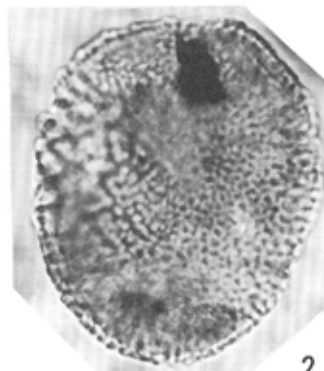
Fig. 1 – 11. *Clavatipollenites variabilis* n. sp.  
Figs. 1 a–b, – 8, 10: slide C 31–b; fig. 9 :  
slide C 6 –d; fig. 11: slide C 15–e.



1a



1b



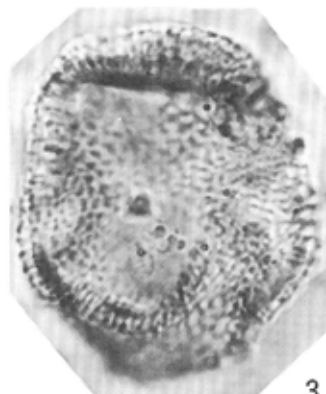
2



5



4



3



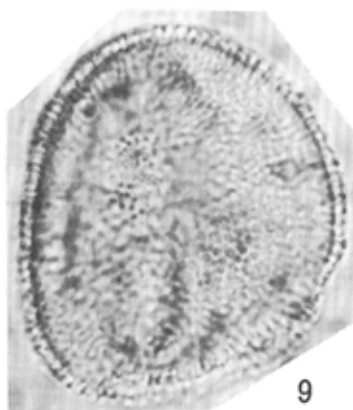
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7



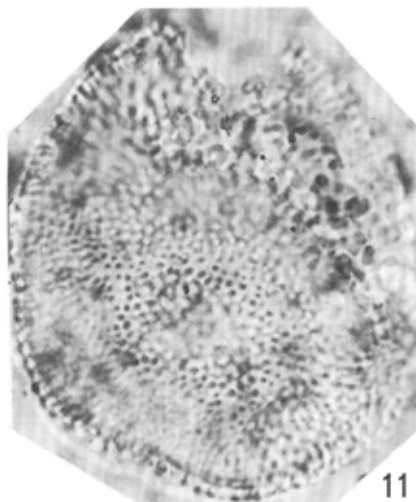
8



9



10



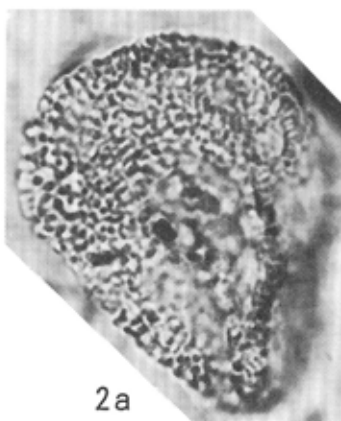
11

Explanation of plate 82

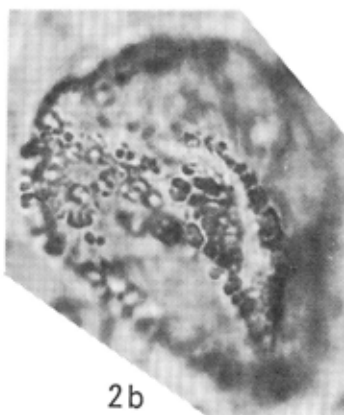
- Figs. 1 – 5.      *Clavatipollenites variabilis* n. sp.  
Fig. 1 : X 1000, slide C 31–b; figs. 2 a, b: X 1000, slide C 31–d; figs. 3 – 5 : SEM: X 1700, (C 31).
- Figs. 6 a–b, 7.   *Asteropollis clavatus* (Phillips & Felix) Ward  
Fig. 6 a: SEM: X 1700; fig. 6 b: SEM: X 4200; fig. 7 : SEM: X 3000; (C 31).



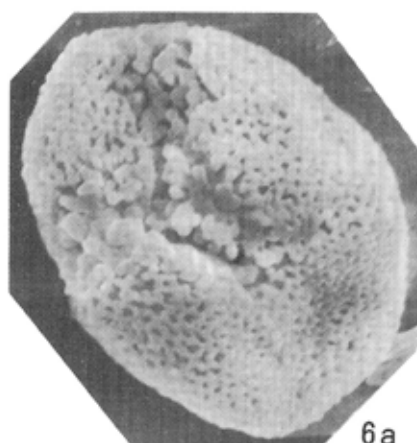
1



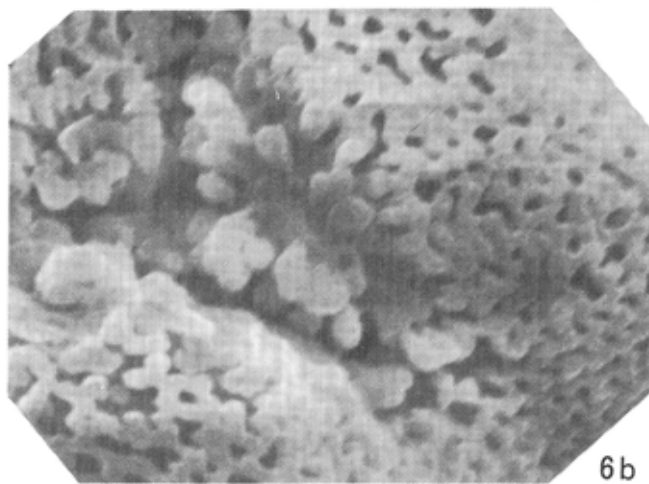
2a



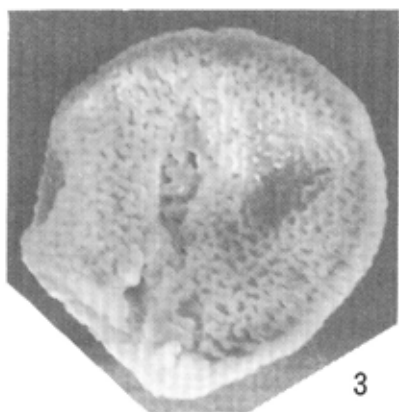
2b



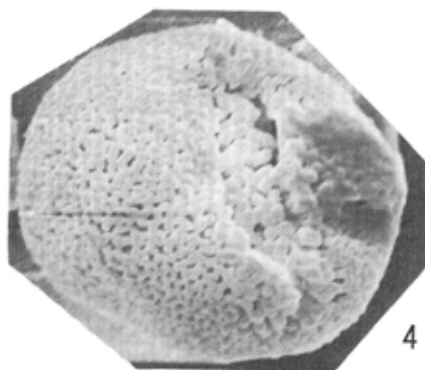
6a



6b



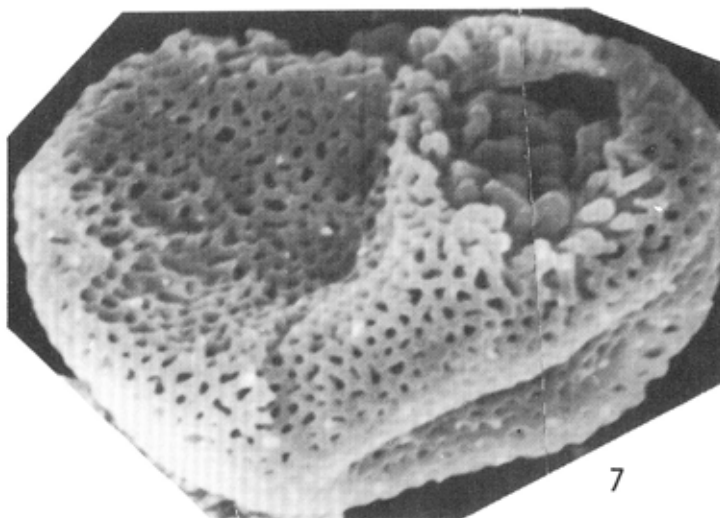
3



4



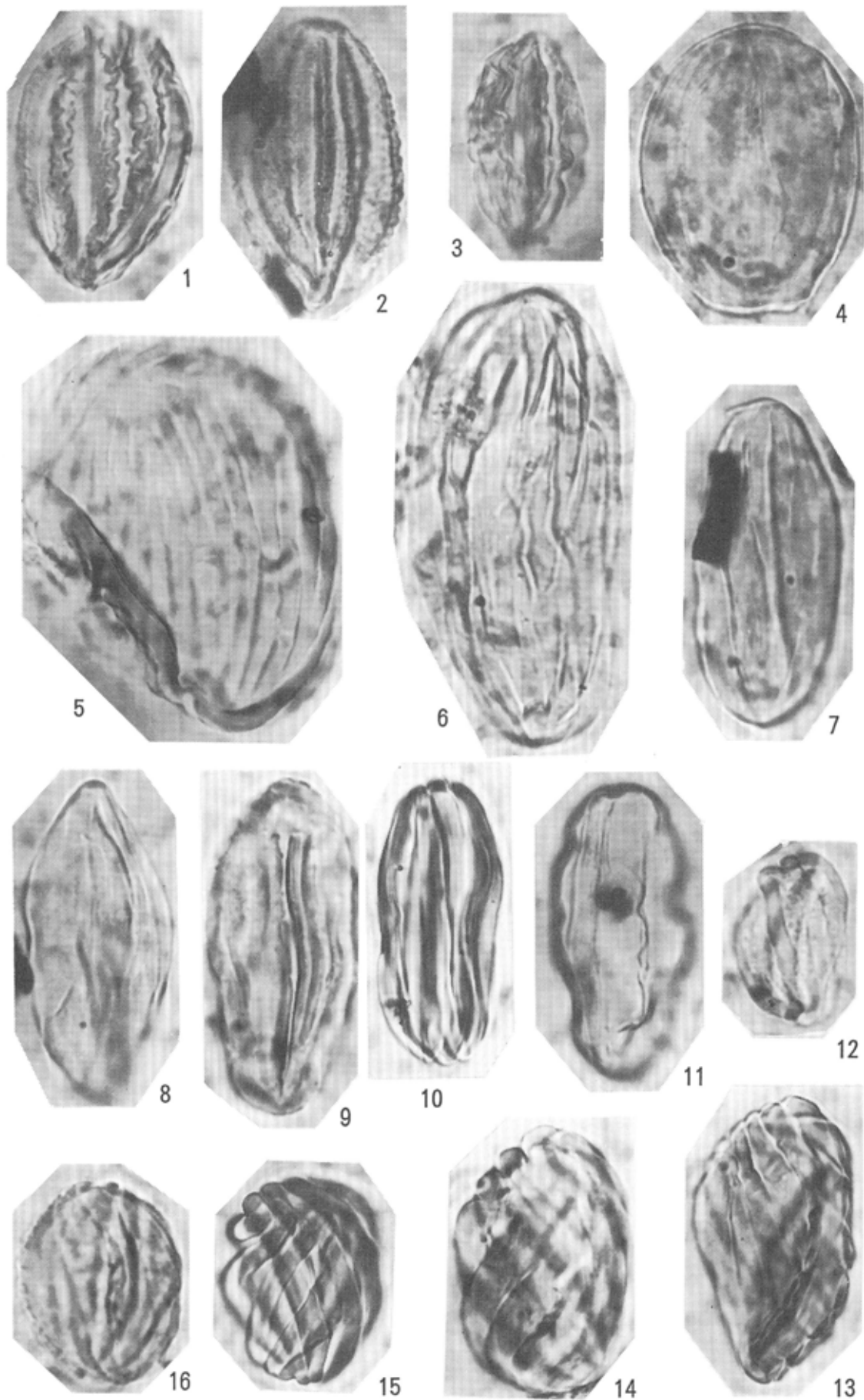
5



7

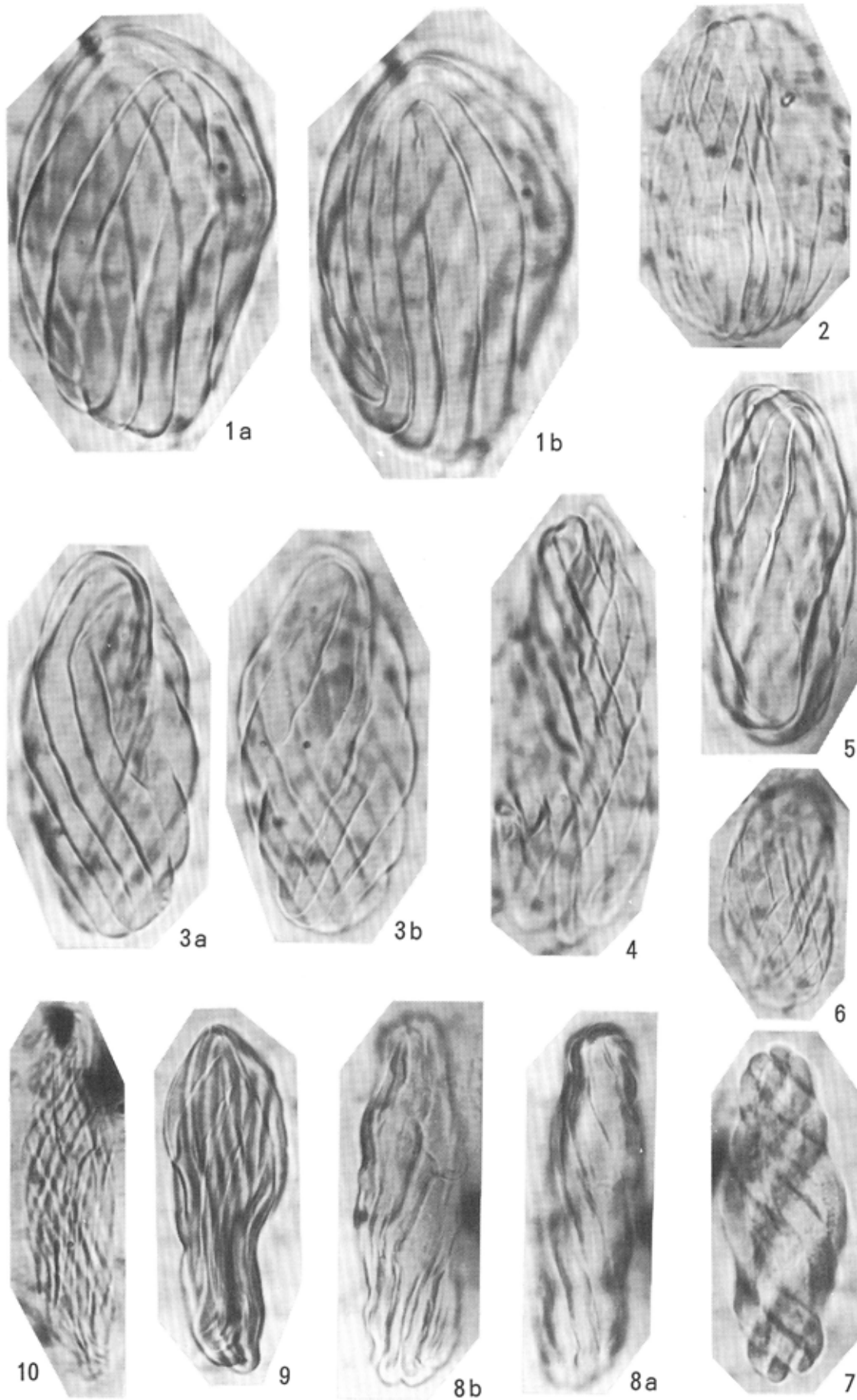
Explanation of plate 83  
(All figures magnified X 1000)

- Figs. 1, 2. *Ephedripites (Distachyapites) scabridus* Song & Zheng  
Fig. 1 : slide C 31—b; fig. 2 : slide C 33—b.
- Fig. 3. *Ephedripites (Distachyapites) sp.*  
Slide C 31—c.
- Fig. 4. *Ephedripites (Ephedripites) sp. a*  
Slide C 34—c.
- Fig. 5. *Ephedripites (Ephedripites) sp. b*  
Slide C 31—b.
- Fig. 6. *Ephedripites (Ephedripites) cf. regularis* Hoeken-Klinkenberg  
Slide C 17—d.
- Figs. 7 — 11. *Ephedripites (Ephedripites) notensis* (Cookson ) Krutzsch  
Fig. 7 : slide C 31—e; figs. 8, 9 : slide C 31—d; Figs. 10, 11:  
slide C 31—b; fig. 11: cf.
- Fig. 12. *Ephedripites (Ephedripites) chaloneri* Brenner  
Slide C 6 —d.
- Figs. 13, 14. *Ephedripites (Spiralipites) perlatus* Wang & Zhao n. comb.  
Fig. 13: slide C 31—c; fig. 14: slide C 6 —d.
- Fig. 15. *Ephedripites (Spiralipites) cf. contaxtus* Gao & Zhao n. comb.  
Slide C 31—c.
- Fig. 16. *Ephedripites (Spiralipites) sp. a*  
Slide C 31—d.



Explanation of plate 84  
(All figures magnified X 1000)

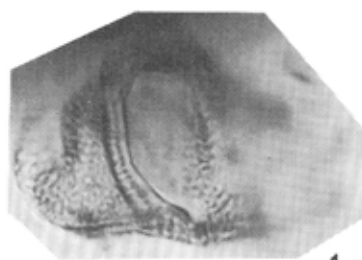
- Figs. 1 a–b, 3 a–b. *Ephedripites* (*Spiralipites*) *praeclarus* Chlonova n. comb.  
Slide C 31–e; figs. 3 a–b: cf.
- Fig. 2. *Ephedripites* (*Spiralipites*) sp. b  
Slide C 33–B.
- Figs. 4, 5. *Ephedripites* (*Spiralipites*) *longus* Song & Zheng  
Fig. 4 : slide C 31–d; fig. 5 : slide C 31–c.
- Fig. 6. *Ephedripites* (*Spiralipites*) *ellipsoideus* (Takahashi) Takahashi  
Slide C 33–a.
- Figs. 7 – 9. *Ephedripites* (*Spiralipites*) *elongatus* n. sp.  
Fig. 7 : slide C 31–d; figs. 8 a, b: holotype,  
slide: C 31–c; fig. 9 : slide C 33–a.
- Fig. 10. *Ephedripites* (*Spiralipites*) aff. *longus* Song & Zheng n. comb.  
Slide C 33–b.



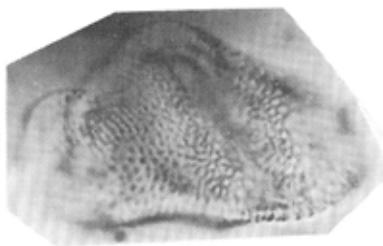


Explanation of plate 85  
(All figures magnified X 1000)

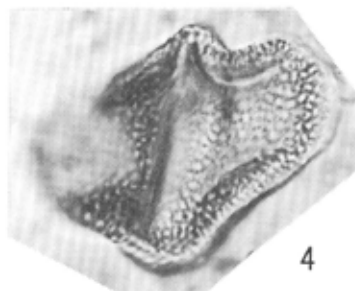
- Figs. 1 – 7. *Fibulapollis evanidus* (Chlonova) Takahashi  
Figs. 1 a–b, 2 a–b, 3 a–b, 4 : slide C 31–b; fig. 5 a –b:  
slide C 31–d; fig. 6 : slide C 33–a; fig. 7 : slide C 31–c.
- Figs. 8 a–b, 9 a–b. *Fibulapollis enodatus* (Chlonova) Takahashi  
Figs. 8 a, b: slide C 31–e; figs. 9 a, b: slide C 34–b.



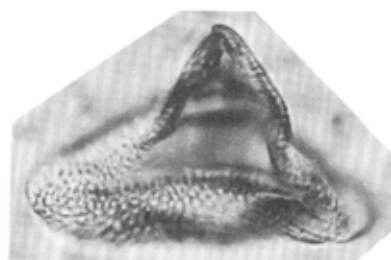
1a



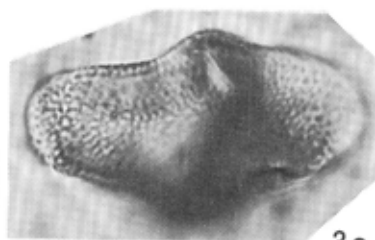
1b



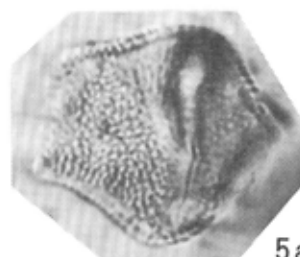
4



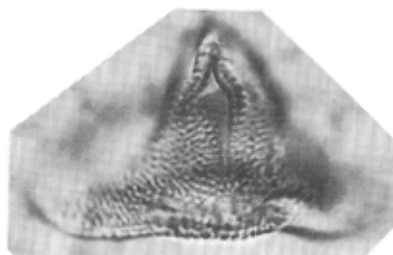
2a



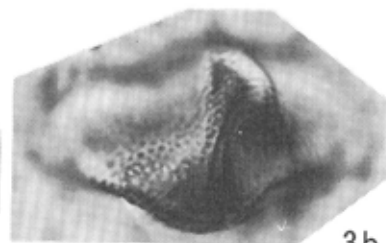
3a



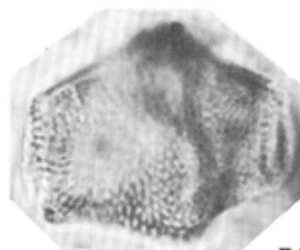
5a



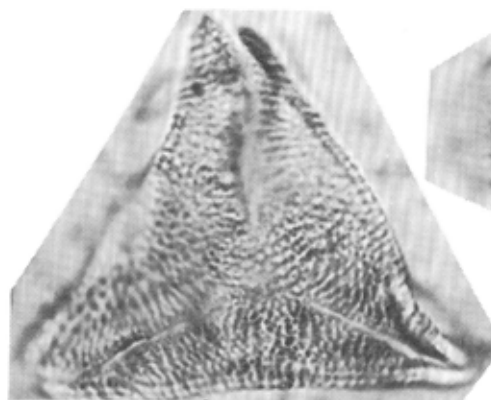
2b



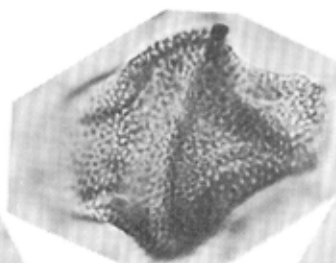
3b



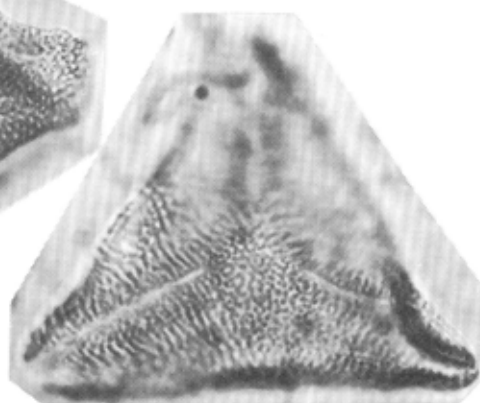
5b



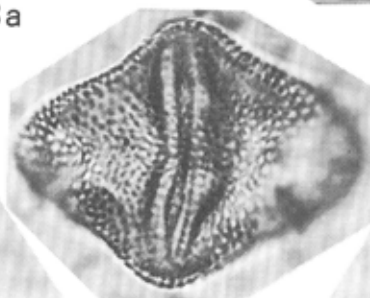
8a



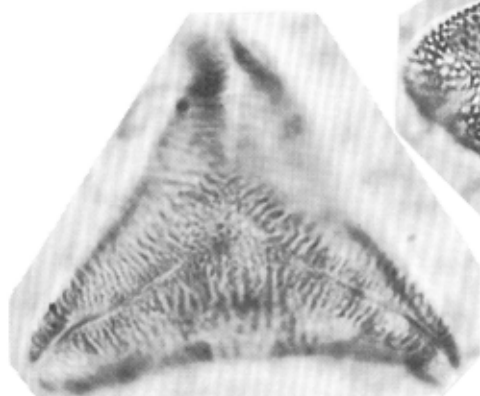
6



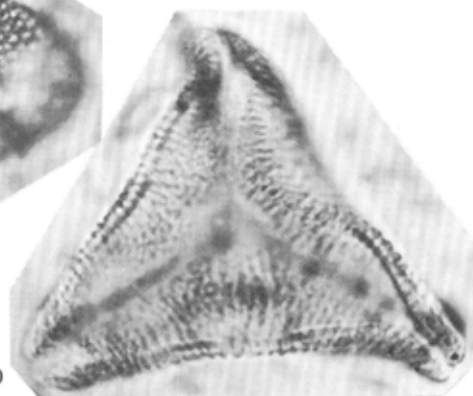
8b



7



9a



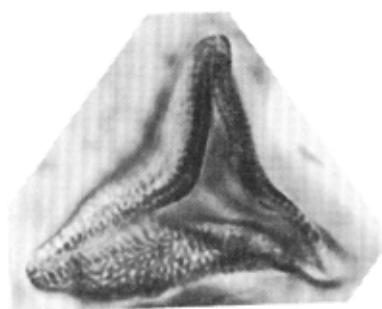
9b

Explanation of plate 86  
(All figures magnified X 1000)

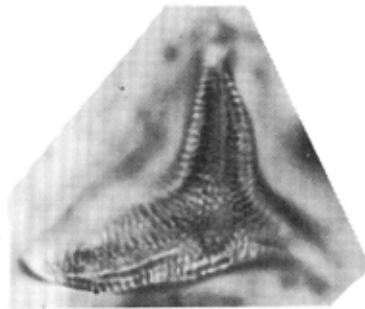
- Figs. 1 – 5.        *Fibulapollis enodatus* (Chlonova) Takahashi  
Figs. 1 a–b, 3, 4 a–c, 5 : slide C 31–b.
- Figs. 6, 7, 9 – 11. *Cycadopites mirus* n. sp.  
Fig. 6 : slide C 33–b; fig. 7 : slide C 33–a; fig. 9 : slide C 15–d,  
holotype; fig. 10: slide C 31–b; fig. 11: slide C 31–b.
- Fig. 8.            *Cycadopites* sp. a  
Slide C 33–a.
- Fig. 12.          *Monocolpopollenites kyushuensis* Takahashi  
Slide C 33–b.
- Fig. 13.          *Cycadopites* sp. b  
Slide C 33–b.
- Fig. 14.          *Arecipites* sp. a  
Slide C 31–b.
- Fig. 15.          *Arecipites* sp. b  
Slide C 6 –d.
- Fig. 16.          *Arecipites pflugii* (Takahashi) Krutzsch  
Slide C 31–e.



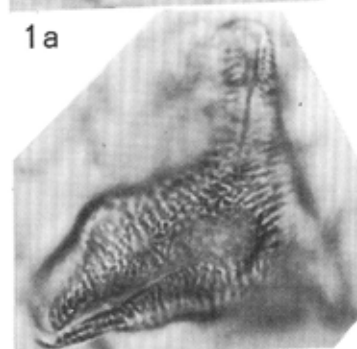
1a



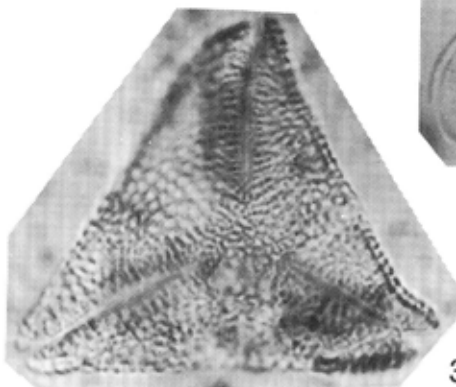
2a



2b



1b



3



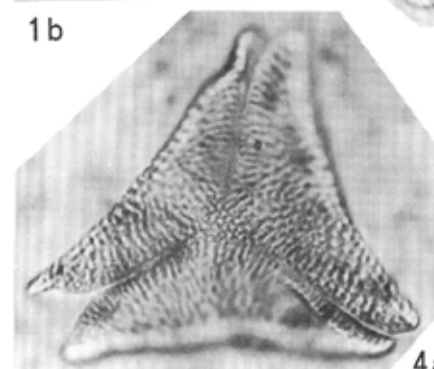
8



6



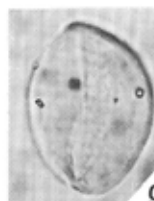
7



4a



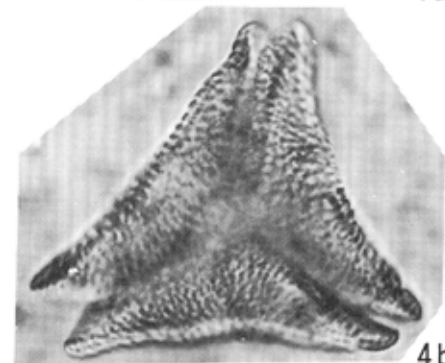
5



9



10



4b



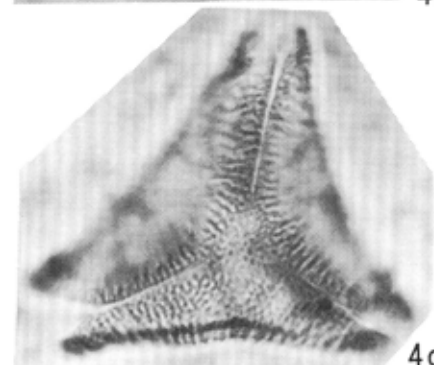
14



12



11



4c



15



16



13

Explanation of plate 87  
(All figures magnified X 1000 unless otherwise mentioned)

- Fig. 1. *Arecipites* sp. c  
Slide C 31 – b.
- Fig. 2. *Arecipites* sp. d  
Slide C 6 – d.
- Figs. 3, 4. *Arecipites* sp. e  
Fig. 3 : slide C 33 – a; fig. 4 : slide C 33 – b.
- Figs. 5 – 9, 15. *Quercoidites umiensis* (Takahashi) Takahashi  
Fig. 5, 9 : slide C 31 – C; fig. 6 : slide C 31 – b; fig. 7 :  
slide C 31 – d; fig. 8 : slide C 33 – a, fig. 15: slide C 40 – b.
- Fig. 10. *Cupuliferoidaepollenites ditis* (Takahashi) Takahashi  
Slide C 31 – b.
- Figs. 11 – 14. *Cupuliferoidaepollenites vulgaris* (Takahashi) Takahashi  
Fig. 12, 14: slide C 31 – b; fig. 11: slide C 15 – d; fig. 13:  
slide C 31 – c.
- Fig. 16. *Striatopollis striatellus* (Takahashi) Takahashi  
Slide C 33 – a.
- Fig. 17. *Quercoidites* cf. *henrici* (Potonié) Potonié  
Slide C 33 – b.
- Fig. 18. *Cupuliferoidaepollenites* sp.  
Slide C 33 – a.
- Fig. 19. *Phimopollenites* sp.  
Slide C 33 – b.
- Figs. 20 – 25. *Cupuliferoidaepollenites fallax* (Potonié) Potonié  
Figs. 20, 23, 24: slide C 33 – a; fig. 21: slide C 17 – d; fig. 22:  
slide C 31 – b; fig. 25: slide C 6 – d.
- Figs. 26 – 28. *Cupuliferoidaepollenites lanceolatus* n. sp.  
Slide C 31 – b; fig. 27: holotype.
- Figs. 29 a, b ? *Ovoidites* sp.  
Slide C 39 – a; fig. 29a: X 400.

